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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/673,398	09/30/2003	09/30/2003 Si-Hyun Song	8734.239.00 US 3749			
30827 75	30827 7590 11/28/2006			EXAMINER		
MCKENNA LONG & ALDRIDGE LLP			ADAMS, GREGORY W			
1900 K STREET, NW WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER		
			3652			
			DATE MAILED: 11/28/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

·	· ·	Арр	lication No.	Applicant(s)	_			
Office Action Summary		10/6	573,398	SONG, SI-HYUN				
		Exa	miner	Art Unit	_			
		Greg	jory W. Adams	3652				
Period fo	The MAILING DATE of this commun	ication appears	on the cover sheet with	the correspondence address				
A SHO WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE Masions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this coming period for reply is specified above, the maximum some to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	AALING DATE C s of 37 CFR 1.136(a). In nunication. tatutory period will apply will, by statute, cause	OF THIS COMMUNICA in no event, however, may a rep or and will expire SIX (6) MONTH the application to become ABAI	ATION.  ly be timely filed  IS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) file	ed on 17 Octobe	r 2006.		•			
		2b)⊠ This actio	•					
3)□								
.—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	Claim(s) 1-20 is/are pending in the	application.						
·	4a) Of the above claim(s) is/a	re withdrawn fro	m consideration.					
5) 🔲 ·	Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-20</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restri	ction and/or elec	tion requirement.					
Applicati	ion Papers		•					
9) 🗆	The specification is objected to by the	e Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
•—	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including	g the correction is	required if the drawing(s	) is objected to. See 37 CFR 1.121(d).				
·11)	The oath or declaration is objected t	o by the Examin	er. Note the attached	Office Action or form PTO-152.				
Priority u	under 35 U.S.C. § 119	•						
12)⊠	Acknowledgment is made of a claim	for foreign prior	ty under 35 U.S.C. § 1	119(a)-(d) or (f).				
· ·	⊠ All b) Some * c) None of:	, 0 ,						
	1. Certified copies of the priority	documents hav	e been received.					
	2. Certified copies of the priority documents have been received in Application No. 2002-0061912.							
				eceived in this National Stage				
	application from the Internation	•						
* 5	See the attached detailed Office action	on for a list of the	certified copies not re	eceived.				
Attachmen			<b>4</b> 0 □ (=, -) = <b>4</b>					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (	PTO-948)		mmary (PTO-413) Mail Date				
	mation Disclosure Statement(s) (PTO-1449 o		5) Notice of Info	ormal Patent Application (PTO-152)				
Pape	er No(s)/Mail Date <u>9/14/06</u> .		6)  Other:		_			

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### **DETAILED ACTION**

#### **Continued Examination**

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 17, 2006 has been entered.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1, 3-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Babbs (Us 5,823,361) in view of Betsuyaku (US 6,006,919).

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With respect to claims 1, 3, 7-13, 14-19, Babbs discloses a frame, support members 126 protruding from opposing sides, and two support bars 125 connecting two support members 126 configured to distributed a load across a substrate. Babbs does not disclose rectangular supporting bars connecting two support members. Betsuyaku discloses a liquid crystal display panel cassette including rectangular supporting bars (FIG. 4: 3) that per international agreement improves "durability, sealing performance, good anti-staining performance, unmanned use, automation, ease of cleaning, etc."

C1/L28. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Babbs to include rectangular supporting bars as per the teachings of Betsuyaku, to improve LCD cassette performance.

With respect to claims 4-6, 20, Babbs discloses a frame, support members 126 protruding from opposing sides, and two support bars 125 connecting two support members 126 configured to distributed a load across a substrate, and does not explicitly disclose supporting liquid crystal display panels including thin film arrays and color filters but Babbs discloses supporting large glass substrates by using support members connected by support bars to minimize sag. C1. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use Babbs' cassette to store liquid crystal display panels comprising thin transistor arrays and color filters as Babbs discloses the apparatus which could function to support large objects. Babbs does not disclose rectangular supporting bars connecting two support members.

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supporting bars (FIG. 4: 3) that per international agreement improves "durability, sealing performance, good anti-staining performance, unmanned use, automation, ease of cleaning, etc." C1/L28. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Babbs to include rectangular supporting bars as per the teachings of Betsuyaku, to improve LCD cassette performance.

Claim 2 rejected under 35 U.S.C. 103(a) as being unpatentable over Babbs (Us 5,823,361) in view Stadler et al. (US 5,236,548) (previously cited). Babbs discloses a frame, support members 126 protruding from opposing sides, and two support bars 125 connecting two support members 126. Babbs does not disclose acetal resin. Referring to FIGS. 1-2 Stadler et al. disclose support bars 8 of acetal resin which is resistant to cleaning agents and etchants and that do no contaminate substrate. Col. 5, Ins. 39-46. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Babbs' supports to include acetal resin, as per the teachings of Stadler et al., such that supports resist cleaning agents and etchants and will not contaminate substrates.

## Response to Arguments

Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory W. Adams whose telephone number is (571) 272-8101. The examiner can normally be reached on M-Th., 8:00-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen Lillis can be reached on (571) 272-6928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**GWA** 

EILEEN D. LILLIS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600